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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,750	04/30/2001	Walter Dixon III	345708004US	3459
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BUCKLEY, MASCHOFF, TALWALKAR LLC 5 ELM STREET NEW CANAAN, CT 06840			ZHEN, LI B	
			ART UNIT	PAPER NUMBER
			2126	

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/845,750	DIXON ET AL.
	Examiner Li B. Zhen	Art Unit 2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 April 2001.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8,10-12 and 14-58 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-8,10-12 and 14-58 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

1. Claims 1 – 8, 10 – 12 and 14 – 58 are pending in the current application.

Claim Objections

2. Claims 2, 22, 33 – 35 and 41 – 45 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 2, 22, 33, 41 and 45 depend from claims 54 – 58 respectively. Claims 54 – 58 are recited after claims 2, 22, 33 – 35 and 41 – 45. Dependent claims shall contain a reference to a claim previously set forth; therefore, claims 2, 22, 33 – 35, and 41 – 45 are of improper dependent form.

3. Claim 33 is listed with a status “canceled” and claims 34 and 35 depend from claim 33. It is unclear as to what is the status of claim 33 and if claim 33 is indeed canceled, claims 34 and 35 should be corrected so that they no longer depend from a canceled claim.

Response to Arguments

4. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

5. Applicant did not traverse the examiner's assertion of official notice for claims 1, 37, 44, 4 – 10, 12 and 14 – 16 in the Non-Final office action dated 7/2/2004; therefore,

examiner notes that the common knowledge or well-known in the art statements for claims 1, 37, 44, 4 – 10, 12 and 14 – 16 are taken to be admitted prior art. See MPEP 2144.03.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. **Claims 1 – 8, 10 – 12, 14 – 16 and 20 – 58 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,813,769 to Limprecht et al. [hereinafter Limprecht].**

8. As to claim 1, Limprecht teaches a method in a computer system for dispatching requests to perform services to sub-applications [server application components 86 that are hosted in the execution environment 80 of the ASP 90 implement the business logic of a server application; col. 7, line 65 – col. 8, line 10] that use different logic models [e.g. COM or CORBA; col. 8, lines 11 – 23] the method comprising:

providing a context for the sub-applications [maintains a component context object 138 associated with the server application component; col. 10, lines 5 – 37]

receiving a request to perform a service [client program 134 calls a member function of the server application component 86; col. 19, lines 63 – 67]; and for a plurality of sub-applications [component pool 180, Fig. 6; col. 21, lines 1 – 15],

determining whether the received request should be dispatched to the sub-application [at step 220, the transaction server executive 80 first checks whether there is an instance of the server application component in the component pool 180; col. 21, lines 1 – 15]; and

when it is determined that the request should be dispatched to the sub-application [At step 226, the transaction server executive 80 then passes the client program's call; col. 21, lines 38 – 43], invoking a service routine of the sub-application passing the request [initiates processing the call by the appropriate function of the server application component; col. 21, lines 38 – 43]

whereby the sub-applications share the provided context [inherit context from the component context object (i.e., the component context objects created for the new components have the same context properties, including client id, activity id and transaction, as the original component context object); col. 14, lines 3 – 25].

9. As to claim 2, Limprecht teaches the sub-applications are ordered [a list of instances held in the pool; col. 18, lines 25 – 48] and the invoking of the service routines of the at least two sub-applications is performed in the order of the sub-applications [col. 18, lines 25 – 48].

10. As to claim 3, Limprecht teaches determining whether a match criteria for the sub-application matches the received request [calls QueryInterface to determine that the server application component provides the IObjectControl interface; col. 19, lines 1 – 17].

11. As to claim 4, Limprecht teaches the requests are HTTP requests with a URL and the match criteria is a regular expression relating to the URL [col. 6, lines 38 – 65].

12. As to claim 5, Limprecht teaches suppressing the invoking of additional service routines when an invoked service routine returns an indication to suppress the invoking of additional service routines [col. 4, lines 19 – 34].

13. As to claim 6, Limprecht teaches suppressing the invoking of additional service routines when an invoked service routine responds to the received request [col. 17, line 62 – col. 18, line 10].

14. As to claim 7, Limprecht does not teach an invoked service routine performs user authentication and indicates to suppress invoking of additional service routines when a user cannot be authenticated. However, this is well known in the art (such as the authentication module in a web server that must authenticate a user before allowing the server to return a page).

15. It would have been obvious to one of ordinary skill in the art at the time of the invention to use such an authentication scheme with the system of Limprecht in order to provide security for the accessed services.

16. As to claim 8, Limprecht does not teach an invoked service routine logs the received request. However, the logging of received requests is well known in the art (access logs for a web server).

17. It would have been obvious to one of ordinary skill in the art at the time of the invention to invoke service routine log received requests in the system of Limprecht in order to decrease the costs associated with debugging the system.

18. As to claim 10, Limprecht does not disclose transforming the received request from one protocol to another. However, such transformations are well known in the art (WAP gateways that transform between HTML and WMQ).

19. It would have been obvious to one of ordinary skill in the art at the time of the invention to use such a transforming between protocols in the system of Limprecht in order to allow access to different clients.

20. As to claim 11, Limprecht teaches for each of a plurality of sub-applications [component pool 180, Fig. 6; col. 21, lines 1 – 15],
retrieving initialization parameters for the sub-application [server application component passes the parameters; col. 23, lines 18 – 36];

retrieving an indication of a class for the sub-application ["rclsid" is a class identifier that specifies the new server application component to be created; col. 23, lines 18 – 36]; and

instantiating an instance of the class with the retrieved initialization parameters [create a new server application component; col. 23, lines 18 – 36].

21. As to claim 12, Limprecht does not teach that the match criteria is in a configuration file for the sub-application. However, the use of configuration files is well known in the art.
22. It would have been obvious to one of ordinary skill in the art at the time of the invention to store the match criteria for the sub-applications in configuration files in the system of Limprecht to prevent having to re-enter this information whenever the system is restarted.
23. As to claims 14, 15 and 16, Limprecht does not teach an interaction-based model, an action-view model or a workflow-based model. However, these logic models are all well known in the art.
24. It would have been obvious at the time of the invention to use these logic models in the sub-applications of Limprecht in order to use the architecture that is most appropriate for handling different requests.
25. As to claim 20, this is rejected for the same reasons as claims 1, 3 and 11 above.

26. As to claim 21, this is rejected for the same reasons as claims 4 and 11 above.
27. As to claim 22, this is rejected for the same reasons as claims 2 and 11 above.
28. As to claim 23, this is rejected for the same reasons as claims 5 and 11 above.
29. As to claim 24, this is rejected for the same reasons as claims 6 and 11 above.
30. As to claim 25, this is rejected for the same reasons as claims 11 and 14 above.
31. As to claim 26, this is rejected for the same reasons as claim 11 and 15 above.
32. As to claim 27, Limprecht teaches each of the sub-applications implement the same interface [col. 8, lines 11 – 23].
33. As to claim 28, this is rejected for the same reasons as claims 1, 3 and 13 above.
34. As to claim 29, Limprecht teaches including an initialization component that instantiates an object of a specified class for each sub-application [create a new server application component; col. 23, lines 18 – 36].

35. As to claim 30, Limprecht teaches the initialization component accesses configuration information ["rclsid" is a class identifier that specifies the new server application component to be created; col. 23, lines 18 – 36] that specifies the class of each sub-application and any initialization parameters for the sub-applications [server application component passes the parameters; col. 23, lines 18 – 36].

36. As to claim 31, Limprecht teaches a context object representing the context and wherein the initialization component provides the context object to each sub-application [inherit context from the component context object (i.e., the component context objects created for the new components have the same context properties, including client id, activity id and transaction, as the original component context object); col. 14, lines 3 – 25].

37. As to claim 32, Limprecht teaches each service routine is passed a request parameter [col. 23, lines 1 – 16] and returns a response parameter [col. 23, lines 40 – 57].

38. As to claims 33 – 36, these are rejected for the same reasons as claims 2, 5, 6 and 4 respectively, see the rejections to claims 2 and 4 – 6 above.

39. As to claim 37, this is a system claim that corresponds to method claim 1; note the rejection to claim 1 above, which also meets this system claim.

40. As to claims 38 – 40, these are rejected for the same reasons as claims 29, 30 and 32 respectively, see the rejections to claims 29, 30 and 32 above.

41. As to claims 44 and 46 – 48, these are product claims that correspond to method claims 1 and 4 – 6; note the rejections to claims 1 and 4 – 6 above, which also meet these product claims.

42. As to claims 49 – 53, Limprecht teaches all of the sub-applications or service means or service routines execute on the same server computer [component pool 180 is part of execution environment 82, which is on the server computer 84; see Figs. 2 and 6].

43. As to claims 54 – 58, Limprecht teaches a respective service routine is invoked for the request with respect to each of at least two of the sub-applications [IObjectContext interface 139 is used by the server application component 86 to create additional server application components, and to participate in the determination of transaction outcomes; col. 22, lines 60 – 67].

44. As to claims 41 – 43, these are rejected for the same reasons as claims 2, 5 and 6 above.

45. As to claim 45, this is a product claim that corresponds to method claim 2; note the rejection to claim 2 above, which also meets this product claim.

Claim Rejections - 35 USC § 103

46. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

47. **Claims 17 – 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Limprecht in view of U.S. Patent No. 6,718,535 to Underwood [cited in the previous office action].**

48. As to claim 17, Limprecht teaches the sub-applications form an overall application [server application components 86 that are hosted in the execution environment 80 of the ASP 90 implement the business logic of a server application; col. 7, line 65 – col. 8, line 10] but does not teach the provided context is an application-level context.

However, Underwood teaches the provided context is an application-level context [col. 324, lines 57 – 62].

49. It would have been obvious to a person of ordinary skill in the art at the time of the invention to apply the teaching of providing an application-level context as taught by Underwood to the invention of Limprecht because the context is used to control the

scope of transactions performed by the sub-applications [col. 22, lines 46 – 56 of Underwood].

50. As to claim 18, Limprecht as modified teaches the sub-applications form an overall application that is web-based [col. 17, lines 60 – 67 of Underwood].

51. As to claim 19, Limprecht as modified teaches the request is received from a web-server environment [col. 17, lines 60 – 67 of Underwood].

Conclusion

52. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2126

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Li B. Zhen
Examiner
Art Unit 2126

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